Insert this report after Specification Section 02072

APPENDIX A:

**Analytical Results** 



# Technical Report for

IMS Environmental

Langley Air Force Base-USACE-Pavement Area

351.3319

Accutest Job Number: F14574

Report to:

IMS Environmental

wbell@imsenv.com

ATTN: Walter Bell

Total number of pages in report: 24



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D. Laboratory Director

Certification: Florida DOH E83510

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# Sample Summary

Job No:

F14574

IMS Environmental

Langley Air Force Base-USACE-Pavement Area Project No: 351.3319

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
F14574-1	09/12/02	11:09 WB	09/14/02	so	Soil	C-24-A 1'-2'
F14574-2	09/12/02	11:25 WB	09/14/02	SO	Soil	C-25-A 1'-2'
F14574-3	09/12/02	14:15 WB	09/14/02	SO	Soil	C-29-A 1'-2.5'
F14574-4	09/13/02	08:30 WB	09/14/02	SO	Soil	C-32-A 1'-2.5'
F14574-5	09/13/02	09:35 WB	09/14/02	SO	Soil	C-35-A 1'-2.5'
F14574-6	09/13/02	10:00 WB	09/14/02	SO	Soil	C-37-A 1'-2.5'
F14574-7	09/13/02	10:45 WB	09/14/02	SO	Soil	C-38-A 1'-2.5'
F14574-8	09/13/02	10:45 WB	09/14/02	SO	Soil	C-38-B 2'-6'
F14574-9	09/13/02	11:00 WB	09/14/02	SO	Soil	C-39-A 1'-2.5'
F14574-10	09/13/02	11:30 WB	09/14/02	SO	Soil	C-40-A 1'-2.5'
F14574-11	09/13/02	11:45 WB	09/14/02	so	Soil	C-41-A 1'-3'

 Client Sample ID:
 C-24-A 1'-2'

 Lab Sample ID:
 F14574-1
 Date Sampled:
 09/12/02

 Matrix:
 SO - Soil
 Date Received:
 09/14/02

 Method:
 SW846 8260B
 Percent Solids:
 88.1

 Project:
 Langley Air Force Base-USACE-Pavement Area

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 a H018043.D 1 09/25/02 NAF n/a n/a VH622

Run #2

Initial Weight
Run #1 5.01 g
Run #2

# Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene Toluene Ethylbenzene Xylene (total)	88.4	5.7	ug/kg
108-88-3		22.5	5.7	ug/kg
100-41-4		21.2	5.7	ug/kg
1330-20-7		38.7	17	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	109%		79-121%
460-00-4	4-Bromofluorobenze ne	128%		77-133%
17060-07-0	1,2-Dichloroethane-D4	109%		72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = Indicates \ analyte \ found \ in \ asso \ ciated \ method \ blank$ 

Client Sample ID: C-24-A 1'-2' Lab Sample ID: F14574-1

Matrix:

SO - Soil

Date Sampled: 09/12/02

Date Received: 09/14/02 Percent Solids: 88.1

Method: Project:

Langley Air Force Base-USACE-Pavement Area

SW846 8015 M SW846 3550B

Prep Batch Analytical Batch DF By Prep Date File ID Analyzed 09/17/02 OP5878 GOP846 SKW 20 09/18/02 Run #1 OP23618.D

Run #2

Initial Weight Final Volume 1.0 ml 30.2 g

o-Terphenyl

Run #1 Run #2

84-15-1

RL Units Q CAS No. Compound Result TPH (JP-8 Range) a 201 190 mg/kg ND 190 mg/kg TPH (JP-4 Range)

Run#1 Run# 2 Limits CAS No. Surrogate Recoveries 64-121% 78%

(a) TPH calculated as total area, pattern appears to be oil related.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: C-25-A 1'-2'
Lab Sample ID: F14574-2 Date Sampled: 09/12/02
Matrix: SO - Soil Date Received: 09/14/02
Method: SW846 8260B Percent Solids: 82.1
Project: Langley Air Force Base-USACE-Pavement Area

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 a K010301.D 1 09/26/02 NAF n/a n/a VK406

Run #2

Initial Weight Run #1 5.46 g Run #2

# Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	5.6	ug/kg
108-88-3	Toluene	19.9	5.6	ug/kg
100-41-4	Ethylbenzene	2.6	5.6	ug/kg J
1330-20-7	Xylene (total) Surrogate Recoveries	ND	17	ug/kg
CAS No.		Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenze ne	106%		77-133%
17060-07-0	1,2-Dichloroethane-D4	95%		72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: C-25-A 1'-2' Lab Sample ID: F14574-2 Matrix: SO - Soil Method: SW846 8015 N Project: Langley Air Fe		l-2 oil 8015 M	SW846 3550B e Base-USACE	-Pavement A	Date Sample Date Receive Percent Soli area	ed: 09/14/02		
Run #1 Run #2	File ID OP2359	7.D	DF 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial V 30.2 g	Veight	Final V	olume				
CAS No.	Compo	ound		Result	RL	Units Q		
	TPH (J TPH (J			ND ND	10 10	mg/kg mg/kg		ć
CAS No.	Surrog	ate Red	coveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terpl	nenyl		94%		64-121%		

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client Sample ID: C-29-A 1'-2.5'
Lab Sample ID: F14574-3 Date Sampled: 09/12/02
Matrix: SO - Soil Date Received: 09/14/02
Method: SW846 8260B Percent Solids: 83.3
Project: Langley Air Force Base-USACE-Pavement Area

DF Ву Prep Date Prep Batch Analytical Batch File ID Analyzed VK406 09/26/02 NAF n/a K010302.D 1 n/a Run #1 a Run #2

Initial Weight Run #1 5.51 g Run #2

# Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	5.4	ug/kg
108-88-3	Toluene	14.3	5.4	ug/kg
100-41-4	Ethylbenzene	ND	5.4	ug/kg
1330-20-7	Xylene (total)	ND	16	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromet hane	94%		70-130%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenze ne	104%		77-133%
17060-07-0	1,2-Dichloroethane-D4	93%		72-133%

(a) Sample introduction performed using method 5030A.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in asso ciated method blank

Client Sam Lab Samp! Matrix: Method: Project:	le ID: F14574 SO - So SW846	oil 8015 M S	SW846 3550B Base-USACE	-Pavement A	Percent Soli	ed: 09/14/02	
Run #1 Run #2	File ID OP23598.D	DF 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial Weight 30.5 g	Final Vo.	lume				
CAS No.	Compound		Result	RL	Units Q		
	TPH (JP-8 Rar TPH (JP-4 Rar		ND ND	9.8 9.8	mg/kg mg/kg		d
CAS No.	Surrogate Rec	coveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl		98%		64-121%		

RL = Reporting Limit

E = Indicates value exceeds calibration range

J=Indicates an estimated value

B = Indicates analyte found in associated method blank

Analytical Batch

Client Sample ID:	C-32-A 1'-2.5'		
Lab Sample ID:	F14574-4	Date Sampled:	09/13/02
Matrix:	SO - Soil	Date Received:	
Method:	SW846 8260B	Percent Solids:	84.0
Project:	Langley Air Force Base-USACE-Pavem	ent Area	

Analyzed

Run #1 a Run #2	K010300.D	1	09/26/02	NAF	n/a	n/a	VK406	
Run #1 Run #2	Initial Weight 5.19 g							

Prep Date

Prep Batch

### Purgeable Aromatics

File ID

DF

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	5.7	ug/kg
108-88-3	Toluene	15.1	5.7	ug/kg
100-41-4	Ethylbenzene	ND	5.7	ug/kg
1330-20-7	Xylene (total)	ND	17	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	101%		79-121%
460-00-4	4-Bromofluorobenze ne	102%		77-133%
17060-07-0	1,2-Dichloroethane-D4	95%		72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in asso ciated method blank

N = Indicates presumptive evidence of a compound

Client San Lab Samp Matrix: Method: Project:		F1457- SO - S SW846	oil 8 8015 M	SW846 3550B ce Base-USACE	-Pavement A	Percent Soli	ed: 09/14/02	
Run #1 Run #2	File ID OP2359		DF 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial 30.3 g	Weight	Final V 1.0 ml	olume				
CAS No.	Comp	ound		Result	RL	Units Q		
		JP-8 Rai JP-4 Rai	-	ND ND e	9.8 9.8	mg/kg mg/kg		
CAS No.	Surro	gate Re	coveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terp	henyl		94%		64-121%		

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \\ Indicates \\ analyte \\ found \\ in \\ associated \\ method \\ blank$ 

Client Sample ID: C-35-A 1'-2.5'
Lab Sample ID: F14574-5
Matrix: SO - Soil

SW846 8260B

Date Sampled: 09/13/02 Date Received: 09/14/02 Percent Solids: 90.9

Method: Project:

Langley Air Force Base-USACE-Pavement Area

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 a K010303.D 1 09/26/02 NAF n/a n/a VK406
Run #2

Initial Weight Run #1 5.19 g Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	5.3	ug/kg
108-88-3	Toluene	16.8	5.3	ug/kg
100-41-4	Ethylbenzene	ND	5.3	ug/kg
1330-20-7	Xylene (total)	ND	16	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenze ne	104%		77-133%
17060-07-0	1,2-Dichloroethane-D4	92%		72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sam Lab Samp Matrix: Method: Project:	le ID: F14574 SO - So SW846	oil 8015 M	SW846 3550B Base-USACE	-Pavement A	Date Sample Date Receiv Percent Soli Area	ed: 09/14/02	
Run #1 Run #2	File ID OP23600.D	DF 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial Weight 30.8 g	Final Vo	lume				
CAS No.	Compound		Result	RL	Units Q		
	TPH (JP-8 Rar TPH (JP-4 Rar		ND ND	8.9 8.9	mg/kg mg/kg		
CAS No.	Surrogate Red	coveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl		100%		64-121%		

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in asso ciated method blank N = Indicates presumptive evidence of a compound

Client Samp Lab Sample Matrix: Method: Project:	SO SW	1574-6 - Soil 846 8260B	e Base-USACE	-Pavement	Date Receiv Percent Sol	led: 09/13/02 ved: 09/14/02 ids: 85.3	
Run #1 a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	K010304.D	1	09/26/02	NAF	n/a	n/a	VK406

Initial Weight Run #1 5.28 g

Run #2

### Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
			6	
71-43-2	Benzene	ND	5.6	ug/kg
108-88-3	Toluene	53.5	5.6	ug/kg
100-41-4	Ethylbenzene	8.9	5.6	ug/kg
1330-20-7	Xylene (total)	ND	17	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	106%		79-121%
460-00-4	4-Bromofluorobenze ne	101%		77-133%
17060-07-0	1,2-Dichloroethane-D4	94%		72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sam Lab Sampl Matrix: Method: Project:	e ID: F14574-6 SO - Soil SW846 8015 M	SW846 3550B ce Base-USACE	-Pavement A	Percent Soli	ed: 09/14/02	
Run #1 ª Run #2	File ID DF OP23619.D 4	Analyzed 09/18/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP846
Run #1 Run #2	Initial Weight Final V 30.4 g 1.0 ml	Volume				
CAS No.	Compound	Result	RL	Units Q		
é	TPH (JP-8 Range) TPH (JP-4 Range)	140 ND	39 39	mg/kg mg/kg		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		64-121%		

<sup>(</sup>a) TPH calculated as total area, pattern consists of more than just JP-8.

B = Indicates analyte found in associated method blank

Client San Lab Samp Matrix; Method: Project;	le ID: F	-38-A 1'-2.5' 14574-7 O - Soil W846 8260B angley Air Ford	ce Base-USACE	-Pavemen	Percent Sol	ved: 09/14/02	
Run #1 ª Run #2	File ID K010305.I	DF D 1	Analyzed 09/26/02	By NAF	Prep Date n/a	Prep Batch n/a	Analytical Batch VK406
Run #1 Run #2	Initial We 5.33 g	ight					

# Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	5.5	ug/kg
108-88-3	Toluene	3.1	5.5	ug/kg J
100-41-4	Ethylbenzene	ND	5.5	ug/kg
1330-20-7	Xylene (total)	ND	17	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	100%		79-121%
460-00-4	4-Bromofluorobenze ne	100%		77-133%
17060-07-0	1,2-Dichloroethane-D4	95%		72-133%

<sup>(</sup>a) Sample introduction performed using method  $5030\mbox{A}$  .

 $RL = Reporting \ Limit$ 

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \mbox{Indicates analyte found in associated method blank}$ 

N = Indicates presumptive evidence of a compound

Client Sam Lab Sampl Matrix: Method: Project:	e ID: F1457 SO - S SW84	Soil 6 8015 M	SW846 3550B e Base-USACE	-Pavement A	Date Sampl Date Receiv Percent Sol Area	ved: 09/14/02	
Run #1 Run #2	File ID OP23602.D	DF 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial Weigh 30.8 g	t Final V 1.0 ml	olume				
CAS No.	Compound		Result	RL	Units Q		
e	TPH (JP-8 R TPH (JP-4 R		ND ND	9.6 9.6	mg/kg mg/kg	i e	
CAS No.	Surrogate R	ecoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl		87%		64-121%		

ND = Not detected RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in asso ciated method blank N = Indicates presumptive evidence of a compound

	ST	14574-8 D - Soil W846 8260B	ce Base-USACE	C-Pavemen	Percent Sol	ved: 09/14/02	
Run #1 <sup>a</sup> Run #2	File ID K010308.I	DF ) 1	Analyzed 09/26/02	By NAF	Prep Date n/a	Prep Batch n/a	Analytical Batch VK406
Run #1 Run #2	Initial We 4.78 g	ight					

### Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	7.2	ug/kg
108-88-3	Toluene	26.3	7.2	ug/kg
100-41-4	Ethylbenzene	ND	7.2	ug/kg
1330-20-7	Xylene (total)	ND	21	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromet hane	94%		70-130%
2037-26-5	Toluene-D8	101%		79-121%
460-00-4	4-Bromofluorobenze ne	103%		77-133%
17060-07-0	1,2-Dichloroethane-D4	92%		72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client San Lab Samp Matrix: Method: Project:	le ID: F14574-8 SO - Soil SW846 8015 M	I SW846 3550B orce Base-USACE		Date Sample Date Receiv Percent Soli Area	ed: 09/14/02	
Run #1 Run #2	File ID DF OP23603.D 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial Weight Final 30.1 g 1.0 m	Volume l				
CAS No.	Compound	Result	RL	Units Q		
	TPH (JP-8 Range) TPH (JP-4 Range)	ND ND	11 11	mg/kg mg/kg	ć	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	96%		64-121%		

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client Sample ID:	C-39-A 1'-2.5'			
Lab Sample ID:	F14574-9		Date Sampled:	09/13/02
Matrix:	SO - Soil		Date Received:	
Method:	SW846 8260B		Percent Solids:	
Danie de	T 1 A T	D. HOLOED		0010

Project: Langley Air Force Base-USACE-Pavement Area

Run #1 a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch	Commence of the last
Run #2	K010309.D	1	09/26/02	NAF	n/a	n/a	VK406	

	Initial Weight		12 A	
Run #1 Run #2	5.51 g			
Run #2				

### Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	ND 21.4 6.4 ND	5.1 5.1 5.1 15	ug/kg ug/kg ug/kg ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7 2037-26-5 460-00-4 17060-07-0	Dibromofluoromethane Toluene-D8 4-Bromofluorobenze ne 1,2-Dichloroethane-D4	94% 102% 106% 95%		70-130% 79-121% 77-133% 72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client San Lab Samp Matrix: Method: Project:	SO - So SW846	oil 8015 M	SW846 3550B e Base-USACE	-Pavement A	Date Sample Date Receiv Percent Soli Area	ed: 09/14/02	
Run #1 Run #2	File ID OP23606.D	DF 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial Weight 30.7 g	Final Volume	olume				
CAS No.	Compound		Result	RL	Units Q		
	TPH (JP-8 Rar TPH (JP-4 Rar		10.1 ND	9.1 9.1	mg/kg mg/kg		
CAS No.	Surrogate Rec	coveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl		93%		64-121%		

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

$$\begin{split} B &= \text{Indicates analyte found in associated method blank} \\ N &= \text{Indicates presumptive evidence of a compound} \end{split}$$

Client Sample ID:	C-40-A 1'-2.5'		
Lab Sample ID:	F14574-10	Date Sampled:	09/13/02
Matrix:	SO - Soil	Date Received:	
Method:	SW846 8260B	Percent Solids:	
Project:	Langley Air Force Base-USACE-Pavement A		31.2

Run #1 a	File ID K010310.D	DF 1	Analyzed 09/26/02	By NAF	Prep Date n/a	Prep Batch n/a	Analytical Batch VK406	
Run #2								

	Initial Weight	
Run #1 Run #2	5.77 g	
Run #2		

# Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	4.8	ug/kg
108-88-3	Toluene	2.6	4.8	ug/kg J
100-41-4	Ethylbenzene	2.7	4.8	ug/kg J
1330-20-7	Xylene (total)	ND	14	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	102%		79-121%
460-00-4	4-Bromofluorobenze ne	102%		77-133%
17060-07-0	1,2-Dichloroethane-D4	94%		72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client San Lab Samp Matrix: Method: Project:	le ID: F14574 SO - So SW846	oil 8015 M	SW846 3550B Base-USACE	-Pavement A	Date Sample Date Receiv Percent Soli Area	ed: 09/14/02	
Run #1 Run #2	File ID OP23607.D	DF 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial Weight 30.5 g	Final Vo	olume				
CAS No.	Compound		Result	RL	Units Q		
	TPH (JP-8 Rar TPH (JP-4 Rar		ND o ND	9.0 9.0	mg/kg mg/kg		4
CAS No.	Surrogate Rec	coveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl		93%		64-121%		

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

$$\begin{split} B &= \text{Indicates analyte found in associated method blank} \\ N &= \text{Indicates presumptive evidence of a compound} \end{split}$$

Client Sample ID: C-41-A 1'-3'
Lab Sample ID: F14574-11
Matrix: SO - Soil
Method: SW846 8260B

Date Sampled: 09/13/02 Date Received: 09/14/02 Percent Solids: 84.7

Project:

Langley Air Force Base-USACE-Pavement Area

File ID DF Analyzed Ву Prep Date Prep Batch Analytical Batch Run #1 a K010311.D 1 09/26/02 NAF n/a n/a VK406 Run #2

Initial Weight Run #1 5.77 g Run #2

### Purgeable Aromatics

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	5.1	ug/kg
108-88-3	Toluene	45.3	5.1	ug/kg
100-41-4	Ethylbenzene	ND	5.1	ug/kg
1330-20-7	Xylene (total)	ND	15	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	101%		79-121%
460-00-4	4-Bromofluorobenze ne	105%		77-133%
17060-07-0	1,2-Dichloroethane-D4	93%		72-133%

<sup>(</sup>a) Sample introduction performed using method 5030A.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client San Lab Samp Matrix: Method: Project:	le ID: F14574 SO - So SW846	l-11 oil 8015 M S'	W846 3550B Base-USACE	-Pavement A	Date Sample Date Receiv Percent Soli Area	ed: 09/14/02	
Run #1 Run #2	File ID OP23608.D	DF 1	Analyzed 09/17/02	By SKW	Prep Date 09/17/02	Prep Batch OP5878	Analytical Batch GOP845
Run #1 Run #2	Initial Weight 30.3 g	Final Volu	ıme				
CAS No.	Compound		Result	RL	Units Q		
	TPH (JP-8 Ran TPH (JP-4 Ran		12.2 ND <sub>6</sub>	9.7 9.7	mg/kg mg/kg		
CAS No.	Surrogate Rec	overies	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl		96%		64-121%		

<sup>(</sup>a) TPH calculated as total area, pattern consists of more than just JP-8.

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

ACCUTEST

# CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15 ORLANDO, FL 32811 TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

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ACCUTEST QUOTE #:

MATRIX CODES DW- DRINKING WATER LAB USE ONLY 60-11-0 SLUDGE SL. SLUDGE OI. OIL LIQ. OTHER SOL-OTHER SOLID WATER WABTE WATER SOIL - MD WW 80 Nohammed 0019-524-LOH COMMENTS/REMARKS ANALYTICAL INFORMATION SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY HEATHER 2. MILLO RECEIVED BY: B তয়ব LIN PRESERVATION BHOM **LSS ACF** POSCI 5266 CONH HCH DATA DELIVERABLE INFORMATION ₹0 \$ SEJITO6 FACILITY INFORMATION RECINQUIBRED BY: RELINGUISHED BY: 436-WYB SO 92 8EM 1231 20-8-6 9-9-02 1323 WXB SB 9-9-02 1515 NJB 80 XIHTAM ARBA -ANGLEY A. F. B. SAMPLED 4 DISK DELIVERABLE OTHER (SPECIFY) (127) COMMERCIAL 'B" COLLECTION 009 | 20-6-6 PAVEMBAT TIME STATE FORMS PROJECT NAME PROJECT NO. LOCATION FAX # DATE RECEIVED BY: RECEIVED BY: DATA TURNAROUND INFORMATION PROFESSIONAL PLACE 23320 EMERGENCY OR RUSH IS FAX DATA (800) 668 522 S. WARREN FIELD ID / POINT OF COLLECTION 6 CLIENT INFORMATION SACTURE 757 4 36-3000 - ACLVIEST APPROVED BY: OATE TIME: 9-10-02. DATE TIME: X 4 - h1 --13-B A-61-A-81-UNLESS PREVIOUSLY APPROVED 24 HOUR EMERGENCY OTHER 78 HR TAT CHISAPER KE 1. (U) Bell 48 HOUR RUSH STANDARD SEND REPORT TO: 4 SAMPLE # ACCUTEST PHONE # 9 = 0 0000

3 JANDERATURE

ONICE

PRESERVE WHERE APPLICABLE

SEAL 9

RECEIVED BY:

DATE TIME:

RELINQUISHED BY: